

**IFWO** 

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/656,531B

DATE: 09/17/2004 TIME: 15:49:44

Input Set : A:\CTCH-P01-016 SUB SEQ.TXT
Output Set: N:\CRF4\09172004\J656531B.raw

4 <110> APPLICANT: Baltimore, David Porteus, Matthew 7 <120> TITLE OF INVENTION: USE OF CHIMERIC NUCLEASES TO STIMULATE GENE TARGETING 10 <130> FILE REFERENCE: CTCH-P01-016 12 <140> CURRENT APPLICATION NUMBER: 10/656,531B 13 <141> CURRENT FILING DATE: 2003-09-05 15 <150> PRIOR APPLICATION NUMBER: 60/408,454 16 <151> PRIOR FILING DATE: 2002-09-05 18 <150> PRIOR APPLICATION NUMBER: 60/484,788 19 <151> PRIOR FILING DATE: 2003-07-03 ENTERED 21 <150> PRIOR APPLICATION NUMBER: 60/419,341 22 <151> PRIOR FILING DATE: 2002-10-17 24 <160> NUMBER OF SEQ ID NOS: 52 26 <170> SOFTWARE: FastSEQ for Windows Version 4.0 28 <210> SEQ ID NO: 1 29 <211> LENGTH: 18 30 <212> TYPE: DNA 31 <213> ORGANISM: Unknown 33 <220> FEATURE: ' 34 <223> OTHER INFORMATION: Oligonucleotide 36 <400> SEQUENCE: 1 37 tagggataac agggtaat . 18 39 <210> SEQ ID NO: 2 40 <211> LENGTH: 9 41 <212> TYPE: DNA 42 <213> ORGANISM: Unknown 44 <220> FEATURE: 45 <223> OTHER INFORMATION: Oligonucleotide 47 <400> SEQUENCE: 2 48 ggggaagaa 50 <210> SEQ ID NO: 3 51 <211> LENGTH: 9 52 <212> TYPE: DNA 53 <213> ORGANISM: Unknown 55 <220> FEATURE: 56 <223> OTHER INFORMATION: Oligonucleotide 58 <400> SEQUENCE: 3 59 gcgtggtcg 61 <210> SEQ ID NO: 4 62 <211> LENGTH: 9 63 <212> TYPE: DNA 64 <213> ORGANISM: Unknown

#### RAW SEQUENCE LISTING

DATE: 09/17/2004

PATENT APPLICATION: US/10/656,531B TIME: 15:49:44

Input Set : A:\CTCH-P01-016 SUB SEQ.TXT
Output Set: N:\CRF4\09172004\J656531B.raw

66 <220> FEATURE: 67 <223> OTHER INFORMATION: Oligonucleotide 69 <400> SEQUENCE: 4 70 gatgttgct 72 <210> SEQ ID NO: 5 73 <211> LENGTH: 15 74 <212> TYPE: DNA 75 <213> ORGANISM: Unknown 77 <220> FEATURE: 78 <223> OTHER INFORMATION: Oligonucleotide W--> 80 <221> NAME/KEY: misc\_feature 81 <222> LOCATION: (5)...(10) 82 <223> OTHER INFORMATION: n = A, T, C or G W-->84<400>515 W--> 85 gatgnnnnnn ttgct 87 <210> SEQ ID NO: 6 88 <211> LENGTH: 9 89 <212> TYPE: DNA 90 <213> ORGANISM: Unknown 92 <220> FEATURE: 93 <223> OTHER INFORMATION: Oligonucleotide W--> 95 <221> NAME/KEY: misc\_feature 96 <222> LOCATION: 2,3,5,6,8,9 97 <223> OTHER INFORMATION: n = A, T, C or G W--> 99 < 400 > 6W--> 100 gnngnngnn 102 <210> SEQ ID NO: 7 103 <211> LENGTH: 24 104 <212> TYPE: DNA 105 <213 > ORGANISM: Homo sapiens 107 <220> FEATURE: 108 <221> NAME/KEY: misc\_feature 109 <222> LOCATION: 1,2,4,5,7,8 110 <223 > OTHER INFORMATION: n = A, T, C or G 112 <221> NAME/KEY: misc feature 113 <222> LOCATION: (10)...(15) 114 <223> OTHER INFORMATION: n= A,T,C or G W--> 116 <221> misc feature 117 <222> LOCATION: 17,18,20,21,23,24 118 <223> OTHER INFORMATION: n=A,T,C or G W--> 120 < 400 > 7W--> 121 nncnncnncn nnnnngnngn ngnn 24 123 <210> SEQ ID NO: 8 124 <211> LENGTH: 9 125 <212> TYPE: DNA 126 <213> ORGANISM: Unknown 128 <220> FEATURE: 129 <223> OTHER INFORMATION: Oligonucleotide

131 <400> SEQUENCE: 8

# RAW SEQUENCE LISTING

DATE: 09/17/2004 TIME: 15:49:44

Input Set : A:\CTCH-P01-016 SUB SEQ.TXT
Output Set: N:\CRF4\09172004\J656531B.raw

PATENT APPLICATION: US/10/656,531B

	ggggaagaa	9
	<210> SEQ ID NO: 9	
	<211> LENGTH: 8	
	<212> TYPE: DNA	
	<213> ORGANISM: Unknown	
	<220> FEATURE:	
	<223> OTHER INFORMATION: Oligonucleotide	
	<400> SEQUENCE: 9	
	gcgtggcg	8
	<210> SEQ ID NO: 10	
	<211> LENGTH: 24	
	<212> TYPE: DNA	
	<213> ORGANISM: Unknown	
	<220> FEATURE:	
	<223> OTHER INFORMATION: Oligonucleotide	
	<400> SEQUENCE: 10	24
	accatcttct tcaaggacga cggc	24
	<210> SEQ ID NO: 11	
	<211> LENGTH: 9 <212> TYPE: DNA	
	<213> ORGANISM: Unknown	
	<220> FEATURE:	
	<223> OTHER INFORMATION: Oligonucleotide	
	<400> SEQUENCE: 11	
	qaaqatqqt	9
	<210> SEQ ID NO: 12	7
	<211> LENGTH: 9	
	<212> TYPE: DNA	
	<213> ORGANISM: Unknown	
	<220> FEATURE:	
	<223> OTHER INFORMATION: Oligonucleotide	
	<400> SEQUENCE: 12	
	gacgacggc .	9
	<210> SEQ ID NO: 13	
	<211> LENGTH: 24	
180	<212> TYPE: DNA	
181	<213> ORGANISM: Unknown	
183	<220> FEATURE:	
184	<223> OTHER INFORMATION: Oligonucleotide	
186	<400> SEQUENCE: 13	
187	ggcgcccacc atcgcgtcgc agcc	24
189	<210> SEQ ID NO: 14	·
190	<211> LENGTH: 9	
191	<212> TYPE: DNA	
192	<213> ORGANISM: Unknown	
194	<220> FEATURE:	
195	<223> OTHER INFORMATION: Oligonucleotide	
197	<400> SEQUENCE: 14	
198	gtgggcgc	9
-	$\cdot$	

DATE: 09/17/2004

### RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/656,531B TIME: 15:49:44

Input Set : A:\CTCH-P01-016 SUB SEQ.TXT
Output Set: N:\CRF4\09172004\J656531B.raw

200 <210> SEQ ID NO: 15 201 <211> LENGTH: 9 202 <212> TYPE: DNA 203 <213> ORGANISM: Unknown 205 <220> FEATURE: 206 <223> OTHER INFORMATION: Oligonucleotide 208 <400> SEQUENCE: 15 209 gtcgcagcc 211 <210> SEQ ID NO: 16 212 <211> LENGTH: 168 213 <212> TYPE: DNA 214 <213> ORGANISM: Unknown 216 <220> FEATURE: 217 <223> OTHER INFORMATION: Oligonucleotide 219 <400> SEQUENCE: 16 220 actagcaacc tcaaacagac accatggtgc atctgactcc tgaggagaag tctgccgtta 60 221 ctgccctgtg gggcaaggtg aacgtgatcg ttggagtttg tctgtggtac cacgtagact 120 222 gaggactcct cttcagacgg caatgacggg acaccccgtt ccacttgc 168 224 <210> SEQ ID NO: 17 225 <211> LENGTH: 9 226 <212> TYPE: DNA 227 <213> ORGANISM: Unknown 229 <220> FEATURE: 230 <223> OTHER INFORMATION: Oligonucleotide 232 <400> SEQUENCE: 17 233 gaggttgct 235 <210> SEQ ID NO: 18 236 <211> LENGTH: 7 237 <212> TYPE: PRT 238 <213> ORGANISM: Unknown 240 <220> FEATURE: 241 <223> OTHER INFORMATION: Synthetic zinc finger peptide 243 <400> SEQUENCE: 18 244 Gln Ser Ser Asp Leu Thr Arg 245 1 248 <210> SEQ ID NO: 19 249 <211> LENGTH: 7 250 <212> TYPE: PRT 251 <213> ORGANISM: Unknown 253 <220> FEATURE: 254 <223> OTHER INFORMATION: Synthetic zinc finger peptide 256 <400> SEQUENCE: 19 257 Thr Ser Gly Glu Leu Val Arg 258 1 · 261 <210> SEQ ID NO: 20 262 <211> LENGTH: 7 263 <212> TYPE: PRT 264 <213> ORGANÍSM: Unknown

266 <220> FEATURE:

#### RAW SEQUENCE LISTING

DATE: 09/17/2004 TIME: 15:49:44 PATENT APPLICATION: US/10/656,531B

Input Set : A:\CTCH-P01-016 SUB SEQ.TXT Output Set: N:\CRF4\09172004\J656531B.raw

267 <223> OTHER INFORMATION: Synthetic zinc finger peptide 269 <400> SEQUENCE: 20 270 Thr Ser Gly Ala Leu Thr Arg 271 1 5 274 <210> SEQ ID NO: 21 275 <211> LENGTH: 7 276 <212> TYPE: PRT 277 <213> ORGANISM: Unknown 279 <220> FEATURE: 280 <223> OTHER INFORMATION: Synthetic zinc finger peptide 282 <400> SEQUENCE: 21 283 Thr Ser Gly Ser Leu Thr Arg 284 1 287 <210> SEQ ID NO: 22 288 <211> LENGTH: 7 289 <212> TYPE: PRT 290 <213> ORGANISM: Unknown 292 <220> FEATURE: 293 <223> OTHER INFORMATION: Synthetic zinc finger peptide 295 <400> SEQUENCE: 22 296 Arg Ser Asp Asn Leu Thr Arg 5 297 1 300 <210> SEQ ID NO: 23 301 <211> LENGTH: 7 302 <212> TYPE: PRT 303 <213> ORGANISM: Unknown 305 <220> FEATURE: 306 <223> OTHER INFORMATION: Synthetic zinc finger peptide 308 <400> SEQUENCE: 23 309 Arg Ser Asp Asn Leu Val Arg 310 1 313 <210> SEQ ID NO: 24 314 <211> LENGTH: 48 315 <212> TYPE: DNA 316 <213> ORGANISM: Unknown 318 <220> FEATURE: 319 <223> OTHER INFORMATION: Oligonucleotide 321 <400> SEQUENCE: 24 322 agcaacctct ctagagcgtg ggcgtcgttg gagagatctc gcacccgc 324 <210> SEQ ID NO: 25 325 <211> LENGTH: 9 326 <212> TYPE: DNA 327 <213> ORGANISM: Unknown 329 <220> FEATURE: 330 <223> OTHER INFORMATION: Oligonucleotide 332 <400> SEQUENCE: 25 333 ggcaaggtg 335 <210> SEQ ID NO: 26 336 <211> LENGTH: 7

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 09/17/2004 TIME: 15:49:45

PATENT APPLICATION: US/10/656,531B

Input Set : A:\CTCH-P01-016 SUB SEQ.TXT Output Set: N:\CRF4\09172004\J656531B.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 5,6,7,8,9,10 Seq#:6; N Pos. 2,3,5,6,8,9 Seq#:7; N Pos. 7,2,4,5,7,8,10,11,12,13,14,15,17,18,20,21,28,24

#### VERIFICATION SUMMARY

PATENT APPLICATION: US/10/656,531B

DATE: 09/17/2004 TIME: 15:49:45

Input Set: A:\CTCH-P01-016 SUB SEQ.TXT
Output Set: N:\CRF4\09172004\J656531B.raw

L:80 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:84 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5

L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

L:95 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

L:99 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6

L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0

L:116 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7

L:120 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7

L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0